

100

FIG. 1

1/3

MERCHANT

102

PRIVATE
DATABASE
 $m_i, i=1, \dots, N$

110

PUBLIC
DATABASE
 $(c_i, l_i, desc_i, tag_i)$
 $c_i = (Y^T K_i, g^T) = E_{\{g\}}(k_i)$
 $l_i = E_{\{K_i\}}(m_i)$

112

PAYMENT
SERVER

114

COMMUNICATION CHANNEL(S)

104

120

NETWORK

CUSTOMER

106

122

USER
DEVICE

FIG. 1

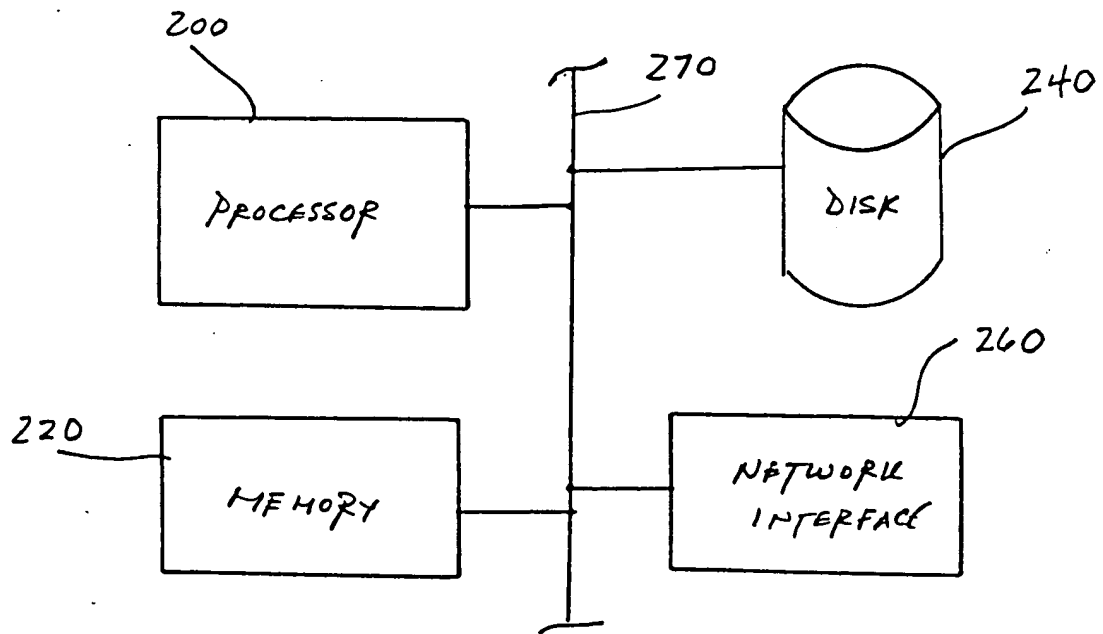


FIG. 2

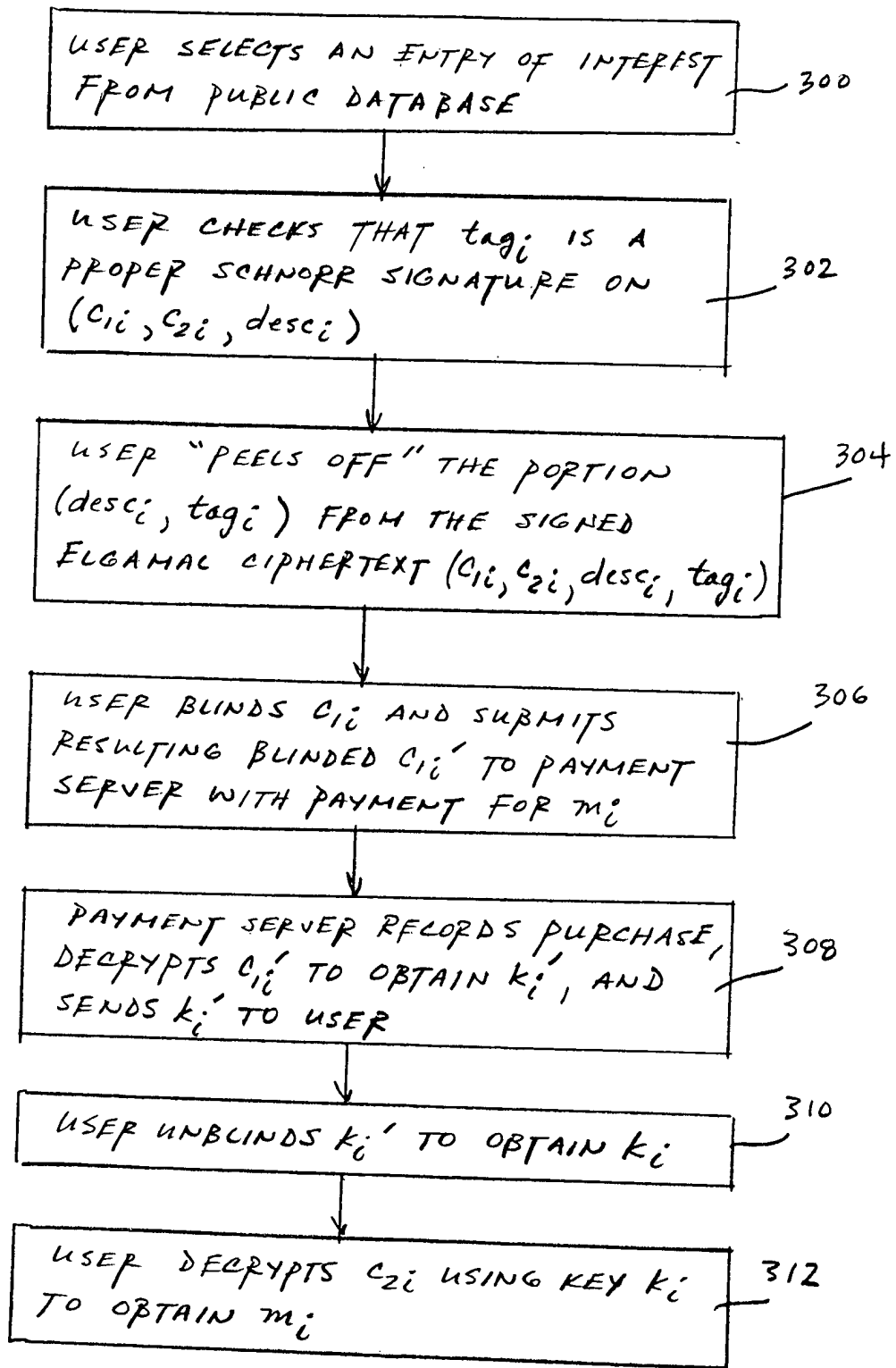


FIG. 3